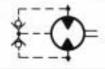


GEAR MOTORS 60 SERIES Specification Sheet





The CROSS series 60 gear type motors feature advanced design concepts which produce long service life and high reliability when operated up to rated speeds and pressures. Improved gear tooth design and pressure-balanced loading plates provide for a high volumetric and overall efficiency, while operating at a low noise level.

GENERAL SPECIFICATIONS

Displacement sizes

						cu.in./Rev.
66.4	84.4	100.8	117.2	133.6	151.6	cc/Rev.

Rated working pressure (Max. relief valve setting at full flow) 30	000 psi (207 bar)
Maximum shock and surge pressure35	
Maximum flow rate (input)	8 gpm (409 l/m)
Maximum speed (continuous)	
Maximum horsepower (at rated speed and pressure)	189 hp (148 Kw)
Mounting (any position)	ze, 2 and 4-bolt
Weight Approx	. 42 lbs. (19 Kg)

MATERIAL SPECIFICATIONS

End covers	Die cast aluminum alloy
Gears and shafts	Hardened steel
Bearings	Pressure lubricated, Teflon impregnated sleeve
Seals	
Body	Permold aluminum alloy

STANDARD FEATURES

Rotation: Bi-directional (Dual Rotation)
 Ports: 1'/2" SAE #24, o-ring (1'/8 - 12) side location
 '/4" NPTF drain port
 Internal check valves (no external drain required if back pressure is below shaft seal rating)
 Shaft: 1'/4" dia. with straight key
 Shaft seal: 250 psi (17 bar)

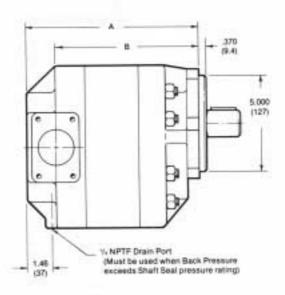
OPTIONAL FEATURES AVAILABLE

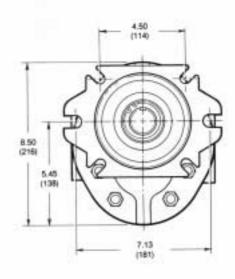
- Rotation: Right hand (clockwise); Left hand (counterclockwise)
- Ports: Straight thread inlet and outlet, rear location; 11/4" and 11/2" split flange side ports, inlet and outlet
- Shaft: 11/4" splined (14 tooth, 12/24 pitch, 30° P.A. flat root side fit)

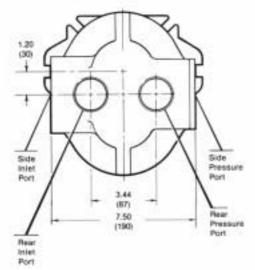
NOTE: Refer to CROSS pump and motor technical/service sheet for side and end load limitations, oil recommendations, start-up procedures, etc.



DIMENSIONAL DATA in inches and (millimeters)

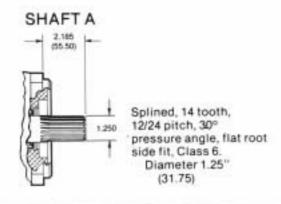


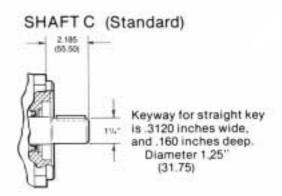




Displacement		Dimens	ion "A"	Dimension "B"		
cu.in./Rev.	cc/Rev.	inches	mm	inches	mm	
4.05	(66.4)	7.75	(197)	6.24	(158)	
5.15	(84.4)	8.00	(203)	6.50	(165)	
6.15	(100.8)	8.27	(210)	6.77	(172)	
7.15	(117.2)	8.52	(216)	7.02	(178)	
8.15	(133.6)	8.77	(223)	7.27	(185)	
9.25	(151.6)	9.05	(230)	7.55	(192)	

OUTPUT SHAFT



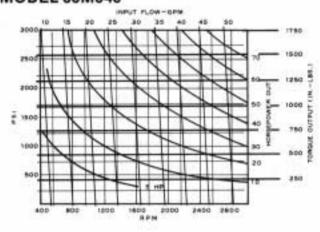




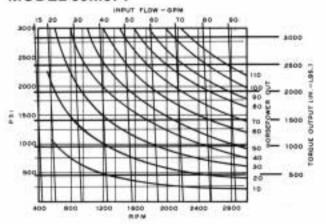
TYPICAL PERFORMANCE DATA

(FOR SPECIFIC PERFORMANCE DATA, CONTACT CROSS ENGINEERING)

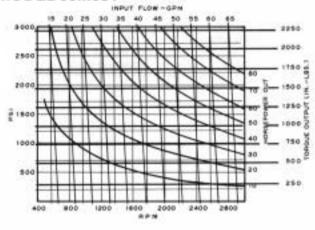
MODEL 60M040



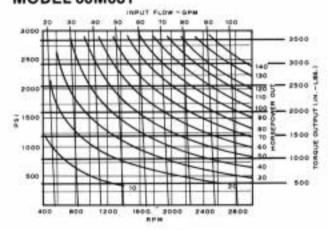
MODEL 60M071



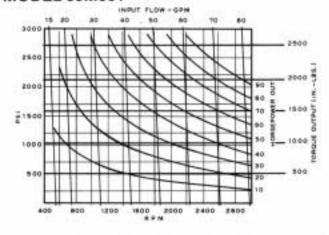
MODEL 60M051



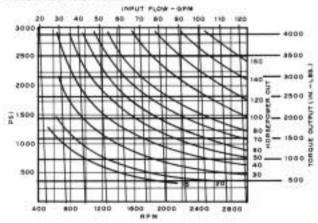
MODEL 60M081



MODEL 60M061



MODEL 60M092

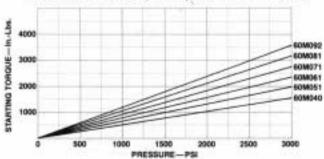


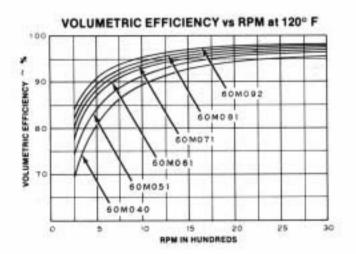


TYPICAL PERFORMANCE DATA

(FOR SPECIFIC PERFORMANCE DATA, CONTACT CROSS ENGINEERING)







ORDERING DATA

Series	Туре	Special Options	Size cu.in./ Rev. x 10	Rotation	Mounting	Shaft Size & Type	Port Location, Size & Type Inlet and Outlet	
60	M motor	H 250 psi Shaft Seal	40 51 61 71	D dual L left R right	C SAE 2 & 4 bolt combin- ation	A 11/4 dia. splined C 11/4 dia. straight keyway	SF 17/a - 12 SAE #24 SH 11/2" spl. flg.	SIDE PORTS
		92	ngnt		keyway	RK 1"/a - 12 SAE #24	REAR PORTS	

EXAMPLE: 60MH40DCCSF

Describes a Series 60 Gear Motor with 250 psi shaft deal; displacement of 4.0 cu. in. per revolution; bi-directional rotation; combination SAE two and four bolt "C" mount; 1 1/4" dia. shaft with straight keyway and 1 7/8 - 12 side ports.



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